CONTENTS

Volume 23, Number 1

Catalytic automotive exhaust after treatment 1
G. C. Koltsakis and A. M. Stamatelos

Implications of the Gaussian intensity distribution of laser beams on the performance of the phase Doppler technique. Sizing uncertainties 41
Y. Hardalupas and C. H. Liu

Experiments on droplet collisions, bounce, coalescence and disruption 65
M. Orme

Flameless oxidation to reduce thermal NO-formation 81
J. A. Wünning and J. G. Wünning

Volume 23, Number 2

Models of soot formation and oxidation 95
I. M. Kennedy

Laser induced fluorescence spectroscopy in flames 133
J. W. Daily

Volume 23, Number 3

Guest Editorial 201

A decade of combustion research 203
L. D. Smoot

Implementing NO_x control: research to application 233
L. J. Muzio and G. C. Quartucy

Modeling of ash deposition in large-scale combustion facilities burning pulverized coal 267
H. Wang and J. N. Harb

Soot in coal combustion systems 283
T. H. Fletcher, J. Ma, J. R. Rigby, A. L. Brown and B. W. Webb

Volume 23, Number 4

Spray stagnation flames 303
S. C. Li

Influence of process parameters on nitrogen oxide formation in pulverized coal burners 349
R. P. van der Lans, P. Glarborg and K. Dam-Johansen

Volume 23, Numbers 5–6

Application of high energy ignition systems to engines 379
J. D. Dale, M. D. Checkel and P. R. Smy

Investigations on ions in flames 399
A. B. Fialkov